PTO/SB/08B (10-96) [reproduced]
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

| Substitute for Form 1449B/PTO | | | | | Complete if Known | | | |
|-------------------------------|-------------|--------|---|---------------------------------|--|---|-----|--|
| | | | | | Application Number | 09/768,950 | | |
| | RMATIO | | | | Filing Date | January 24, 2001 | | |
| SIAIE | EMENT | BY | APPL | MAIN | First Named Inventor | Robert W. Hower, et a | 11. | |
| | | | | - 2 6 2001 W | Group Art Unit | | | |
| | (use as man | y shee | ts as nece | essary) | Examiner Name | | | |
| Sheet | 1 | | of 1 3 | A SARKS | Attorney Docket Number | UOM 0217 PUS | | |
| | OTHE | R PF | RIOR A | RT NON P | ATENT LITERATUR | RE DOCUMENTS | | |
| Examiner Initials | Cite No | o.1 | | k, magazine, journal, s | | rticle (when appropriate), title of the ate, page(s), volume-issue number(s), ublished. | T ² | |
| an | | | Electi Membra | rochemical Per ane-Based Sol | ., New Solvent Syste rformance of Screen- id-State Sensors, Pr osensors IX, June 19 | Printed Polyruethane oceedings For | | |
| an | , | | Method | | n IC-Technology Comp) For Immobilization | atible Automatic Membranes, Vol. B1, | | |
| an | | | Fabrio Digest | cation of Bio: c, IEEE Solid | L., Silicon Micromac sensors Using Living -State Sensor and Ac pp. 173-6, June 199 | Cells, Technical tuator Workshop, | | |
| a.h | | | EUGSTER, R., ET AL., Selectivity-Modifying Influence of Anionic Sites in Neutral-Carrier-Based Membrane Electrodes, Analytical Chemistry, Vol. 63, pp. 2285-2289, 1991. | | | | | |
| an | | | Solid- | -State Ion Se | | | | |
| | | / | | | | • | | |
| | | | | | | RECEIVED | | |
| | | | | | 7 | C 1700 | • | |
| | | | | | | C ₁₇₀₀ | | |
| | | | | | | | | |
| | | \ \ | | | | | | |
| | | : | | | | | | |
| Examine Signature | | 6 | le | Nosnere | Date Considered | 01/31/2003 | | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-96) [MODIFIED]
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| Cubatituta for | Form 1449A/PTO | | | Complete if Known | | |
|----------------|-------------------|------------------|------------------------|-------------------------|--|--|
| | | (ID:6) | Application Number | 09/768,950 | | |
| INFOR | MATION D | DISCIO SURI | Filing Date | January 24, 2001 | | |
| STATE | MENI BY | APPLICANT | First Named Inventor | Robert W. Hower, et al. | | |
| | | F 12.0 2001 | Group Art Unit | | | |
| (L | ıse as many sheet | \ √ ₽. ~\ | Examiner Name | | | |
| Sheet | 1 | of 1 | Attorney Docket Number | UOM 0217 PUS | | |

| | | | | U.S. PATENT DO | CUMENTS | |
|----------------------|--------------|---------------|---|--|--|--|
| Examiner Initials | Cite No.¹ | U.S. PATENT D | NOCUMENT Kind Code ² (if known) | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| 29 | | 5,200,051 | | Cozzette, et al. | 04/06/1993 | |
| - | | | | | | |
| | | | | | | |
| - | - | - | | | - | |
| | | | | | | |
| | | | | | | |
| - | | | | | | |
| | | | | | | |
| | | | | | | • |
| | | | | | | |
| | | - | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | | F | OREIGN P | ATENT DOCUMEN | ITS | | |
|----------------------|--------------|---------------------|--------------------|---|--|--|--|---|
| Examiner Initials | Cite No.1 | Office ³ | Foreign Patent Doo | cument Kind Code ⁵ (if known) | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | |
| | | | | | | | | |
| | | | | | | RECE | 1/2 | |
| | | | | | | | VED | |
| | | | | | | JUN 1 a | | ٠ |
| - | | | | | | 7 | <i>U01</i> | |
| | | | - | | | TO | | |
| | | | | | | 16 77 | | |
| | | | | | | , , | | |
| | | | | | | | | |

| Examiner Signature | aby | Nacheral | Date Consider | ed <i>C</i> // | 31/03 |
|-----------------------|--------------------------|---------------------------|---------------------------------------|---------------------------|-----------------------------------|
| | | | ition is in conformance with MPEP 609 | . Draw line through citat | tion ff not in conformance and no |
| considered. Ir | nclude copy of this forr | n with next communication | to applicant. | | |

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-96) [MODIFIED]
pproved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office. 0.5. DEL ATTIMENT STOCKMENT OF Patent and Trademark Office. 0.5. DEL ATTIMENT STOCKMENT OF Patent and Trademark Office. 0.5. DEL ATTIMENT STOCKMENT OF Patent and Trademark Office. 0.5. DEL ATTIMENT STOCKMENT OF PATENT OF PATENT

| A | Substitute for | ubstrute for Form 1449A/PTO | | | Complete if Known | | |
|----------|----------------|---|--------------|----------|------------------------|-------------------------|--|
| WE TRADE | AACH | | | | Application Number | 09/768,950 | |
| | INFOF | RMATIO | N DISC | LOSURE | Filing Date | January 24, 2001 | |
| | SIAIL | Substitute for Form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT | | | First Named Inventor | Robert W. Hower, et al. | |
| | | | | | Group Art Unit | 1743 | |
| | (| use as many : | sheets as ne | cessary) | Examiner Name | | |
| | Sheet | 1 | of | 2 | Attorney Docket Number | UOM 0217 PUS | |

| | | | | U.S. PATENT DO | CUMENTS | |
|----------------------|--------------|---------------|---|--|--|--|
| Examiner Initjals | Cite No.1 | U.S. PATENT D | OCUMENT Kind Code ² (if known) | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| an | | 5,334,837 | | Ikeda, et al. | 08/02/1994 | - |
| | | | | | 3 | |
| | | | | | | |
| | | | | | | |
| | | | | | REC | EIVED |
| | | | | | NOV | 1 3 2002 |
| | | | | | TC | 1700 |
| | | | | | 10 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | - | | |

| | FOREIGN PATENT DOCUMENTS | | | | | | | | | |
|---------------|--------------------------|---|---------------|--|-------------------|--|--|--|--|--|
| Examiner Cite | | Foreign Patent Document Kind Code ⁵ Office ³ Number ⁴ (<i>if known</i>) | | | | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | | | |
| αr | | EP | 1 053 784 A2 | | Bruker Daltonik | 11/22/2000 | | | | |
| a d | | DE | 197 05 910 C1 | | R.G. Pfeiffer | 06/18/1998 | | | | |
| an | | WO | 99/39829 | | Merck & Co. Inc. | 08/12/1999 | | | | |
| Ω " | | WO | 00/67293 | | Ciphergen | 11/09/2000 | | | | |
| αa | | WO | 01/07161 | | Merck & Co. Inc. | 02/01/2001 | | | | |
| an | | WO | 01/83674 | | Gau Jen, Jr. | 11/08/2001 | | | | |
| au | | WO | 02/41996 | | Pyrosequencing AB | 05/30/2002 | | | | |
| | | | | | | | | | | |

| Examiner Signature | als | Magnerola | Date Considered | 0/31/03 | |
|-----------------------|-----|-----------|--------------------|---------|--|

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (10-96) [reproduced]
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Complete if Known Substitute for Form 1449B/PTO **Application Number** 09/768,950 INFORMATION DISCLOSURE January 24, 2001 Filing Date STATEMENT BY APPLICANT **First Named Inventor** Robert W. Hower, et al. Group Art Unit 1743 (use as many sheets as necessary) **Examiner Name** Sheet Attorney Docket Number UOM 0217 PUS OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), Examiner T ² Initials Cite No.1 publisher, city and/or country where published. HJELT, KARI T., ET AL., Measuring Liquid Evaporation From Micromachined Wells, Sensors and Actuators 85, 2000, pps. 384-389. RAMSEY, J.MICHAEL, ET AL., Microfabricated Chemical Measurement Systems, Nature Medicine, Vol. 1, Number 10, October 1995, pps. 1093-1096 RECEIVE

0 8 5005

| Examiner Signature | al Moghera | Date Considered | 01/31/03 |
|-----------------------|------------|-----------------|----------|

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.